



Atty. Dkt. No. MERCK-2309

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: CARR, FRANCIS J.

Title: PROTEIN ISOLATION AND ANALYSIS

Appl. No. 09/937,100

Group Art Unit: 1639

Filing Date: September 20, 2001

Examiner: T. D. Wessendorf

**SEQUENCE LISTING TRANSMITTAL**

MAIL STOP FEE AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Applicants affirm that the attached paper and disk versions of the sequence listing are identical and do not contain new matter.

Respectfully submitted,

\_\_\_\_\_  
Anthony J. Zelano, Reg. No. 27,969  
Attorney for Applicant(s)

MILLEN, WHITE, ZELANO

& BRANIGAN, P.C.

Arlington Courthouse Plaza 1, Suite 1400

2200 Clarendon Boulevard

Arlington, Virginia 22201

Telephone: (703) 243-6333

Facsimile: (703) 243-6410

Attorney Docket No.: MERCK-2309

Date: July 13, 2007



1

SEQUENCE LISTING

<110> CARR, FRANCIS J.

<120> PROTEIN ISOLATION AND ANALYSIS

<130> MERCK-2309

<140> 09/937,100

<141> 2001-09-20

<150> PCT/GB00/01015

<151> 2000-03-17

<150> GB 9906551.8

<151> 1999-03-23

<150> GB 9907057.5

<151> 1999-03-29

<150> GB 9907641.6

<151> 1999-04-06

<150> GB 9914874.4

<151> 1999-06-28

<150> GB 9915363.7

<151> 1999-07-02

<150> GB 9915677.0

<151> 1999-07-06

<150> GB 9916511.0

<151> 1999-07-14

<150> GB 9920503.1

<151> 1999-08-31

<150> GB 9922285.3

<151> 1999-09-21

<160> 66

<170> PatentIn Ver. 3.3

<210> 1

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 1

Asp Asp Asp Asp Lys

1

5

<210> 2  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<220>  
 <221> CDS  
 <222> (1)..(24)

<220>  
 <221> modified\_base  
 <222> (1)  
 <223> a, c, g or t

<220>  
 <221> modified\_base  
 <222> (4)  
 <223> a, c, g or t

<220>  
 <221> modified\_base  
 <222> (7)  
 <223> a, c, g or t

<220>  
 <221> modified\_base  
 <222> (10)  
 <223> a, c, g or t

<220>  
 <221> modified\_base  
 <222> (20)  
 <223> a, c, g or t

<220>  
 <221> modified\_base  
 <222> (23)  
 <223> a, c, g or t

<400> 2  
 nac ncc ngg ntg tkc vag gnv cnt  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5

24

<210> 3  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<220>  
<221> MOD\_RES  
<222> (1)  
<223> Asn, Asp, His or Tyr

<220>  
<221> MOD\_RES  
<222> (2)  
<223> Thr, Pro, Ala or Ser

<220>  
<221> MOD\_RES  
<222> (3)  
<223> Arg, Gly or Trp

<220>  
<221> MOD\_RES  
<222> (4)  
<223> Leu, Met or Val

<220>  
<221> MOD\_RES  
<222> (5)  
<223> Phe or Cys

<220>  
<221> MOD\_RES  
<222> (6)  
<223> Gln, Glu or Lys

<220>  
<221> MOD\_RES  
<222> (7)  
<223> Asp, Val, Ala, Gly or Glu

<220>  
<221> MOD\_RES  
<222> (8)  
<223> His, Leu, Pro or Arg

<400> 3  
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5

<210> 4  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 4  
Ile Glu Gly Arg  
1

<210> 5  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 5  
Pro Gly Ala Ala His Tyr  
1 5

<210> 6  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 6  
Leu Val Pro Arg Gly Ser  
1 5

<210> 7  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 7  
Asp Asp Asp Asp  
1

<210> 8  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 8  
Pro Gly Ala Ala His  
1 5

<210> 9  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 9  
 Leu Val Pro Arg  
 1

<210> 10  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 10  
 Leu Val Pro Arg Gly  
 1 5

<210> 11  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 11  
 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Val Asp  
 1 5 10

<210> 12  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 12  
 Met Asp Tyr Lys Asp Asp Asp Lys  
 1 5

<210> 13  
 <211> 53  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 13  
 gcggatccca tatggactac aaagacgatg acgacaaaca ggtgcagctg cag 53

<210> 14  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 14  
 gcgaattcgt ggtgggtggtg gtggtgtgac tctcc 35

<210> 15  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 15  
 atggaattcc tcgagaccga caccctacag gcggaaaccg accagctgga 50

<210> 16  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 16  
 tcgcgatttc ggtttgcagc gcggattttt cgtcttccag ctggtcggtt 50

<210> 17  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
       primer  
  
 <400> 17  
 aaaccgaaat cgcgaaacctg ctgaaagaaa aagaaaagct ggagttcatc 50  
  
 <210> 18  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
       primer  
  
 <400> 18  
 ggaagcttga attccgccgg acggtgtgcc gccaggatga actccagctt 50  
  
 <210> 19  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
       primer  
  
 <400> 19  
 atggaattcc tcgagacc 18  
  
 <210> 20  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
       primer  
  
 <400> 20  
 ggaagcttga attccgcc 18  
  
 <210> 21  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
       primer  
  
 <400> 21  
 cagctgcagg agtctggggg aggcttag 28



<210> 22  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 22  
 tcagtagacg gtgaccgagg ttccttgacc ccagta 36

<210> 23  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 23  
 gtgacattga gctcacacag tctcct 26

<210> 24  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 24  
 cagcccgttt tatctcgagc ttggtccg 28

<210> 25  
 <211> 47  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 25  
 gcggatccca tatgcaccat catcaccatc accaggtgca gctgcag 47

<210> 26  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 26

atgagaattc tcgagcgtat cgctcgtctg gaagaaaaag ttaaaaccct

50

<210> 27

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 27

tagcggtgga agccagttcg gagttctgag ctttcagggt tttaactttt

50

<210> 28

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 28

tggcttccac cgctaacatg ctgcgtgaac aggttgctca gctgaaacag

50

<210> 29

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 29

catgcgaatt cgtgggtcat aactttctgt ttcagctgag caacc

45

<210> 30

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 30  
atgagaattc tcgagcg 17

<210> 31  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
primer

<400> 31  
catgcgaatt cgtgggtc 18

<210> 32  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
primer

<400> 32  
agatctcgat cccgcaaatt a 21

<210> 33  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
primer

<400> 33  
aaataggcgt atcacgaggc c 21

<210> 34  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
6xHis tag

<400> 34  
His His His His His His  
1 5

<210> 35  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 35  
 agatccctac tataggta

18

<210> 36  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 36  
 ggtgagctcg atgtatcc

18

<210> 37  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 37  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 1 5 10 15

<210> 38  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<220>  
 <221> modified\_base  
 <222> (19)..(24)  
 <223> This region may encompass 'atgatg', 'cancan', 'agnagn',  
 'aanaan', 'gangan' or 'ttnttn' wherein n is a, c, g,  
 or t

<400> 38  
 ggccgcgagg aagaggaann nnnngc

26

<210> 39  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<220>  
 <221> modified\_base  
 <222> (7)..(12)  
 <223> This region may encompass 'naanaa', 'ntcntc', 'ngtngt',  
 'nctnct', 'nagnag' or 'catcat' wherein n is a, c, g,  
 or t

<400> 39  
 ggccgcnnnn nnctccttct cctcgc

26

<210> 40  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 40  
 ttaatacgac tcactata

18

<210> 41  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 41  
 agctaatacg actcactata

20

<210> 42  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 peptide

<400> 42

Asp Tyr Lys Asp Asp Asp Asp Lys

1

5

<210> 43

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 43

gggcagatct ttaactttaa gaaggagata tacatatgaa atacctattg cctacgg 57

<210> 44

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 44

gggtctgggt cataacgata tcggccatcg ctggttgggc agc 43

<210> 45

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 45

ggtaccaaac tggagatcaa acggactgtg gctgcaccat ct 42

<210> 46

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 46

agatggtgca gccacagtcc gtttgatctc cagtttggtta cc 42

<210> 47  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 47  
gatcgaattc ctaacactct ccgcggttga agctcttttg 39

<210> 48  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 48  
gatcgaattc taactttaag aaggagatat acatatg 37

<210> 49  
<211> 42  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 49  
ggactgaacc agttggactt cggccatcgc tgggtgggca gc 42

<210> 50  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 50  
accctggtta ccgtctcttc agcctccacc aaggggccat c 41

<210> 51  
<211> 43  
<212> DNA  
<213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 51  
 gatgggcccct tgggtggaggc tgaggagacg gtaaccaggg tac 43

<210> 52  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 52  
 gatcgagctc tgctttcttg tccaccttgg tgttgc 36

<210> 53  
 <211> 52  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 53  
 cccaaatctt gcgctgcaga ctacaaagac gacgacgaca aatagctcga gc 52

<210> 54  
 <211> 56  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 54  
 ttaagctcga gctatttgc gtcgtcgtct ttgtagctg cagcgcaaga ttggg 56

<210> 55  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 55  
 gaagacgtcg ctgtttac 18



<210> 56  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 56  
ggtaccaagc ttgagatc

18

<210> 57  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 57  
ctactgcgcg cgtgaaaaag

20

<210> 58  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 58  
gggtcagggg accctgg

17

<210> 59  
<211> 77  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>  
<221> modified\_base  
<222> (31)..(32)  
<223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (34)..(35)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (37)..(38)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (40)..(41)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (43)..(44)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (46)..(47)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (49)..(50)  
 <223> a, c, g, or t

<400> 59  
 gaagacgtcg ctgtttacta ctgccagcag nnsnnsnnsn nsnnnsnnsn saccttcggt 60  
 ggtggtacca agcttg 77

<210> 60  
 <211> 77  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<220>  
 <221> modified\_base  
 <222> (28)..(29)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (31)..(32)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (34)..(35)  
 <223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (37)..(38)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (40)..(41)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (43)..(44)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (46)..(47)  
<223> a, c, g, or t

<400> 60  
ccaagcttgg taccaccacc gaaggtsnns nnsnnsnnsn nsnnnsnnctg ctggcagtag 60  
taaacagcga cgtcttc 77

<210> 61  
<211> 70  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>  
<221> modified\_base  
<222> (14)..(15)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (17)..(18)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (20)..(21)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (23)..(24)  
<223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (26)..(27)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (29)..(30)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (32)..(33)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (35)..(36)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (38)..(39)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (41)..(42)  
 <223> a, c, g, or t

<400> 61  
 ctactgcgcg cgtnnsnnsn nsnnnsnnsn snnnsnnsns nnsttcgctt actgggggtca 60  
 ggggaccct 70

<210> 62  
 <211> 70  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<220>  
 <221> modified\_base  
 <222> (29)..(30)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (32)..(33)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (35)..(36)  
 <223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (38)..(39)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (41)..(42)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (44)..(45)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (47)..(48)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (50)..(51)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (53)..(54)  
<223> a, c, g, or t

<220>  
<221> modified\_base  
<222> (56)..(57)  
<223> a, c, g, or t

<400> 62  
aggggtcccc tgaccccgat aagcgaasnn snnnsnnsnns nnsnnsnnsn nsnnnsnnacg 60  
cgcgcgatag 70

<210> 63  
<211> 54  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>  
<221> modified\_base  
<222> (15)  
<223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (18)..(19)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (22)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (25)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (28)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (38)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (41)  
 <223> a, c, g, or t

<400> 63  
 gcgctgcagg ayggncgna cncnggntg tkcvaggncv nttagctcga gcta

54

<210> 64  
 <211> 54  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<220>  
 <221> modified\_base  
 <222> (14)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (17)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (27)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (30)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (33)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (36)  
 <223> a, c, g, or t

<400> 64  
 tagctcgagc taangbncct bgmacanccn ggngtnccgc ccgtcctgca gcgc

54

<210> 65  
 <211> 87  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<220>  
 <221> modified\_base  
 <222> (15)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (18)..(19)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (22)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (25)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (28)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (38)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (41)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (48)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (51)..(52)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (55)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (58)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (61)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (71)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (74)  
 <223> a, c, g, or t

<400> 65  
 ggcgtgcagg ayggncgna cncnggntg tkcvaggncv ntgayggncg nnacncngg 60  
 ntgtkcvagg nvcnttagct cgagcta 87

<210> 66  
 <211> 87  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<220>  
 <221> modified\_base  
 <222> (14)  
 <223> a, c, g, or t



<220>  
 <221> modified\_base  
 <222> (17)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (27)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (30)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (33)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (36)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (47)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (50)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (60)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (63)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (66)  
 <223> a, c, g, or t

<220>  
 <221> modified\_base  
 <222> (69)  
 <223> a, c, g, or t

<400> 66  
 tagctcgagc taangbncct bgmacanccn ggngtnccgc ccgtcangbn cctbgmacan 60

ccnggngtnc cgcccgtcct gcagcgc